Synchronous permanent-magnet electric motor and vehicle driven by such a motor

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The disclosure relates to a synchronous permanent-magnet electric motor and a vehicle driven by such a motor. The electric motor has a leakage inductance whose value is at least about 10% of the value of its effective inductance. In this way, the total inductance of the motor is maximized so as to optimize the effect of the variation of the phase of the stator current on the variation of the voltage at the terminals of the motor. The invention is notably applicable to an electric vehicle.